### THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

West Bred, TIG

MICCORS, THERE HAS BEEN PRESENTED TO THE

#### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANTYS INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANTYS IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS OM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, ADDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT PAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84)

#### WHEAT, COMMON

'Mohler'

In Testimonn Muscept, I have hereunto set my hand and caused the seal of the Hunt Unriety Protection Office to be affixed at the City of Washington, D.C. this twenty-fourth day of November, in the year two thousand and four.

Aura

Commissioner
Plant Variety Protection Office

Secretary

REPRODUCE LOCALLY, include form number and date on all reproductions			Form Approved - OMB No. 0581-0055			
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE			me i aperwork Reduction Act (PRA)	or 1995.	e with the Privacy Act of 1974 (5 U.S.C. 552a) and	
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and Information collection burden statement on reverse)  1. NAME OF OWNER			Application is required in order to dete (7 U.S.C. 2421). Information is held o	ormine if a prontial	plant variety protection certificate is to be issued until certificate is issued (7 U.S.C. 2426).	
WestBred,	LLC		TEMPORARY DESIGNATION OR EXPERIMENTAL NAME	3. VA	RIETY NAME	
4. ADDRESS (Street and No., or R.F.D. No., City	, State, and ZIP Co	de, and Country)	BU 6W93-477 5. TELEPHONE (include area code)	] ]	Mohler	
m 8111 Timberline			406-587-1218	PVF	OBO 400 304	
Bozeman, MT 59	718		6. FAX (include area code)		0 0 1 A 0 A 1	
7. IF THE OWNER NAMED IS NOT A "PERSON" ORGANIZATION (corporation, partnership, ass	, GIVE FORM OF	8. IF INCORPORATED, GIVE	406-586-8742  9. DATE OF INCORPORATION	FILING	DATE	
Limited Liabilit	v Co.	STATE OF INCORPORATION Arizona	7	SER	TEMBER 10, 2004	
10. NAME AND ADDRESS OF OWNER REPRES	ENTATIVE(S) TO S	ERVE IN THIS APPLICATION. (First	Aug. 4. 2003	F	FILING AND EXAMINATION FEES:	
Dr. Dale R. Cl WestBred, LLC	ark			E	\$3652.00	
8111 Timberlin	- D			R	DATE 9-10-2004	
- · · · · · · · · · · · · · · · · · · ·	e brive 9718			C E	· 1/2 D	
Journally HI 5	9110			·v	. 432	
11. TELEPHONE (Include area code)	10 544 / 1 .			D	DATE 9/29/04	
	12. FAX (Include	•	13. E-MAIL	<u>-</u>		
406-587-1218  14. CROP KIND (Common Name)	16. FAMILY NA	86-8247 ME (Botanical)	dclark@w	estb	red.com	
wheat	l _		18. DOES THE VARIETY CONTA	IN ANY TE	RANSGENES? (OPTIONAL)	
15. GENUS AND SPECIES NAME OF CROP	Poace	A.C. IETY A FIRST GENERATION HYBR	YES NO	SSIGNED I	USDA-APHIS REFERENCE NUMBER FOR THE	
Triticum aestivum	□YES		APPROVED PETITION TO (	DEREGULA	ATE THE GENETICALLY MODIFIED PLANT FOR	
19. CHECK APPROPRIATE BOX FOR EACH ATTA			COMMERICALIZATION			
(Follow Instructions on reverse)		(ED	20. DOES THE OWNER SPECIFY OF CERTIFIED SEED? (See	THAT SE Section 83	ED OF THIS VARIETY BE SOLD AS A CLASS (a) of the Plant Variety Protection Act)	
a. Exhibit A. Origin and Breeding History	of the Variety		YES (If "yes", answer i	tems 21 an	id 22 below) NO (If "no", go to itom 22)	
b. Exhibit B. Statement of Distinctness			21. DOES THE OWNER SPECIFY NUMBER OF CLASSES?	THAT SE	ED OF THIS VARIETY BE LIMITED AS TO	
c. X Exhibit C. Objective Description of Vari		•	YES NO			
d. Exhibit D. Additional Description of the		•	IF YES, WHICH CLASSES?	□ FOUN	DATION   REGISTERED   CERTIFIED	
e. Exhibit E. Statement of the Basis of the			22. DOES THE OWNER SPECIFY NUMBER OF GENERATIONS	THAT SEL	ED OF THIS VARIETY BE LIMITED AS TO	
f. Voucher Sample (2,500 viable untreate verification that tissue culture will be de repository)	d seeds or, for tube posited and mainta	r propagated varieties, ined in an approved public	YES NO			
g. Filing and Examination Fee (\$3,652), m	ade payable to "Tre	asurer of the United	IF YES, SPECIFY THE NUMBE	ER 1,2,3, el	tc. FOR EACH CLASS.	
23. HAS THE VARIETY (INCL LIDING ANY HARVES	tion Office)		(If additional explanation is nec	(If additional explanation is necessary, please use the space indicated on the reverse.)		
FROM THIS VARIETY BEEN SOLD, DISPOSED OTHER COUNTRIES?	OF, TRANSFERR	K A HYBRID PRODUCED ED, OR USED IN THE U.S. OR	24. IS THE VARIETY OR ANY CO.	MPONENT	OF THE VARIETY PROTECTED BY ANT BREEDER'S RIGHT OR PATENT)?	
YES 11 NO Sept	20,2∞	3	☐ YES X NO	·	· · · · · · · · · · · · · · · · · · ·	
IF YES, YOU MUST PROVIDE THE DATE OF F FOR EACH COUNTRY AND THE CIRCUMSTAI	IRST SALE, DISPO	SITION, TRANSFER, OR USE space indicated on reverse.)		RY, DATE	OF FILING OR ISSUANCE AND ASSIGNED	
<ol> <li>The owners declare that a viable sample of basic a tuber propagated variety a tissue culture will be</li> </ol>	seed of the variety deposited in a put	has been furnished with application olic repository and maintained for the	· · · · · · · · · · · · · · · · · · ·			
The undersigned owner(s) is/are) the owner of this power land to the control of the the						
entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.  Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.						
SIGNATURE OF OWNER SIGNATURE OF OWNER						
NAME (Risase print or lype) (Lank for West Bred, LLC DAME (Risase print or lype)			DRBiggere	to		
Dale R. Clark			Dan R. Bigge	rst	aff	
Barley ! Wheat Breeder	Sel	+8,2004 L	lice President	DATE	8-2004	
<b>1</b>		7		<del></del>		

## "Mohler" Soft White Winter Wheat

#### 16.a. Exhibit A. Origin and Breeding History

"Mohler" (Exp. # BU 6W93-477) is a soft white winter wheat that originated from the cross of "Stephens x Madsen", made by WestBred, LLC near Bozeman, MT in 1989. The F1 plants were planted near Phoenix, AZ in Nov. 1989, and the F2 seed harvested in May 1990. F2 seed was planted in Oct. 1990 near Bozeman, MT and Moses Lake, WA. Both nurseries had severe winter kill and were abandoned. Remnant F2 seed was again planted near Bozeman, MT and Burley, ID in the fall of 1991. Individual F2 plants were harvested and the F3 seed planted as individual 5' x 7' plots in the fall of 1992 near Burley, ID The F3 plots were observed for the resistance to leaf rust, stripe rust and for over all agronomic appearance. The plots were harvested individually, weighed and the grain tested for cookie/cracker/cake quality by measuring test weight, % protein, SDS sedimentation and alkaline water retention capacity. Seed from one such plot was selected to be advanced and was given the experimental number "BU 6W93-477". Yield trials, along with quality analysis for soft white wheat, were conducted on the F4 thru F12 generations in WestBred, LLC's Pacific Northwest winter wheat trials. F9-F13 generation seed was tested in Washington, Idaho, and Oregon public trial from 1999 to present. Table 1 provides agronomic performance from several location. BU 6W93-477 was tested for quality by the Pacific Northwest Wheat Quality Council in 2001 and found to be acceptable for the soft white wheat market class (Table 2 provides quality data from the USDA/ARS Western Wheat Quality Lab). Individual heads were harvested from the F4 plots and planted as head rows near Bozeman, MT in the fall of 1994. Five head rows were harvested and planted individually in the fall of 1995 near Bozeman, MT. These plots were harvested in Aug of 1996 and planted in October, 1996 near Burley, ID in larger increase plots that were harvested in August, 1997. These lines were planted again near Burley, ID in the fall of 1997. At harvest in August of 1998, one of the plots (selection "d") was selected as the best line and heads were again selected before the plot was bulk harvested. These heads were planted as head-rows near Burley, ID in the fall of 1998 and uniform head rows were harvested as a bulk in August, 1999. The bulk head rowed seed was used to plant a small purification in October, 1999 near Burley, ID. This seed was harvested in August, 2000 and used to plant approximately one acre near Burley, ID in the fall of 2000. This seed was harvested in August, 2001 and designated 'Breeder's' seed. The Breeder's seed was planted on approximately 40 acres near Quincy, WA in



#### "Mohler"

#### Soft White Winter Wheat

October 2001. Production from this field was harvested in August 2002 as 'Foundation' and 'Registered' seed. At that time, the name "Mohler" (named after a small town in Washington) was chosen for the variety. 'Registered' seed was planted in the fall of 2002 and seed from these fields were harvested in August, 2003 as 'Certified' seed. The first unencumbered sale of "Mohler" occurred September 20, 2003.

A variant that is similar to "Mohler", but is 4 to 8 inches taller, occurs at a frequency of up to .08% (8 per 10,000 plants). Also, a red seed variant may occur at a frequency of up to 6/10,000 seed. Otherwise, "Mohler" is a stable and uniform variety in appearance and performance across several generations (F4 to F13) and growing conditions.

#### 16.b. Exhibit B. Statement of Distinctness

Mohler is most similar to the variety Madsen. However, Mohler is 2 days earlier heading than Madsen (t test with 56 paired comparisons  $P = 1.38 \times 10^{-18}$  that they are similar) Table 3, and Mohler is approximately 2 inches taller than Madsen (t test with 113 paired comparisons  $P = 7.17 \times 10^{-25}$  that they are similar) Table 4.

The above comparison, along with the complete Objective Description (Exhibit C) shows Mohler to be a novel variety of soft white winter wheat.

Table 1. Agronomic Characteristics of Mohler compared to check varieties in Washington State Univ. Trials from 2002 to 2004 (58 locations).

	Mean values of 2002(19), 2003 (20) & 2004 (19) trials.					
<u>Variety</u>	Yield <u>Bu/Ac</u>	Test Wt <u>Lbs/Bu</u>	% <u>Protein</u>	Plant Ht. Inches	Heading <u>Date</u>	% <u>Lodging</u>
Mohler	102	59.4	10.0	37	6/2/03	17
Cashup	96	59.8	9.9	34	6/4/03	2
Eltan	99	59.3	9.8	37	6/6/03	24
Finch	102	60.4	9.8	36	6/6/03	5
Hill 81	99	59.8	10.2	39	6/5/03	2
Lambert	97	59.2	10.2	38	6/1/03	5
Madsen	98	59.3	10.4	35	6/5/03	0
Rod	106	58.2	9.7	35	6/5/03	17
Stephens	97	59.0	10.5	35	6/1/03	5
Tubbs	106	58.5	10.0	38	6/3/03	1



## "Mohler" Soft White Winter Wheat

Table 2. Quality analysis (*t*-scores) of Mohler compared to currently grown varieties of soft white winter in Washington State University Trials. Analysis preformed by USDA/ARS Western Wheat Quality Lab in Pullman, WA. (2000 - 2002 samples)

<u> </u>				_
<u>Variety</u>	<u>Grain</u>	Milling	End Product	<u>score</u>
Rod	5.14	1.57	1.44	1.44
Cashup	1.37	-1.13	3.10	1.24
Hill 81	0.15	3.19	-0.15	1.22
Eltan	1.55	1.52	0.53	1.03
Stephens	0.00	0.00	0.00	0.00
Mohler	1.94	0.68	<b>-1.18</b>	-0.12
Lambert	-0.09	2.71	-2.56	-0.21
Tubbs	1.77	-1.21	-3.05	-1.83
Madsen	-2.03	-0.13	-4.33	-2.42
Weatherford	-1.33	-1.93	-3.07	-2.44

Note: Student's t is calculated for each variety compared to the check variety 'Stephens'. Positive values of t indicate the test variety has a value greater than the check and negitive values indicate that the test variety value is less than the check.

Mohler was compared with Stephens in 14 location/years of samples.

# "Mohler" Soft White Winter Wheat

Table 3. Heading date comparisons of Mohler and Madsen in public (Washington State Univ.; Oregon State Univ.; Univ. of Idaho) and private trials from 2000 to 2004.

Heading	Date	(from	Jan	1)

			Mohler	Madsen
<u>Year</u>	<u>Originator</u>	<u>Location</u>		
2000	WSU	Limal	440	
2000	VV 3U	Lind	142	143
		Dusty	145	146
		Lamont Ritzville	147	147
2001	WSU	Dayton	149 147	151
2002	WSU	Pullman	167	150
2002	WOO	St. Johns	163	171
	U of Idaho	Jerome	158	165
	O Of Idalio	Rupert	159	159
		Aberdeen	164	162
		Ririe	170	166
2003	WSU	Lind	143	172
2000	W00	Harrington	157	143 160
		St. Andrews	150	153
		Ritzville	151	154
		Bickleton	155	157
		Anatone	155	158
		Dusty	149	151
		Colton	163	164
		Mayview	155	158
		Almira	155	160
		Creston	154	160
	•	Reardan	160	163
		Lamont	153	154
	•	Fairfield	164	167
		Farmington	162	163
		Walla Walla	150	153
		Pullman	160	161
		Dayton	150	153
		St. Johns	151	154
		Moses Lake	147	150
2004	WSU	Lind	151	153
		Harrington	155	159
		St. Andrews	143	145
		Ritzville	157	159
		Anatone	147	148
		Dusty	169	171
		Colton	162	163
		Mayview	166	167

1.38E-18 P= 1.38 x 10<sup>-18</sup>

		((B.F. B.) A	200400	JU
		"Mohler"		
	Soft V	White Winter Wheat		
	Almira	166		168
	Creston	167		169
	Reardan	147		149
	Lamont	169		171
	Fairfield	161		163
	Farmington	140		142
	Walla Walla	170		171
	Pullman	142		144
	Dayton	148		150
	St. Johns	142		144
	Moses Lake	162		163
OSU	Corvallis	134		135
	Pendleton	145		148
	Madras	144		150
U of Idaho	Rupert	161		163
	Kimberly	145		146
	Aberdeen	<u>164</u>		<u>169</u>
	mean	154.5	1	56.8
	1	t Test w 56		

Therefore they are different

Table 4. Plant height comparisons of Mohler and Madsen in public (Washington State Univ., Oregon State Univ., Univ. of Idaho) and private trials from 2000 to 2004.

df

			Mohler	Madsen
<u>Year</u>	<u>Originator</u>	Location		
2000	WestBred	Burley, ID	38	35
		Blackfoot, ID	39	35
		Moses Lake, WA	40	39
		Puliman, WA	44	38
		Steptoe, WA	45	43
		Walia Walia, WA	34	30
	WSU	Anatone	35	33
		Bickleton	34	34
		Lind	33	32
		Dusty	37	32
<del>Grandita</del> )		Ritzville	39	38

Lamont			Soft White Winter Wheat		
Fairfield   34   35     Reardan   39   39     Farmington   41   39     Creston   39   36     Mayview   37   36     Pullman   38   37     St. John   43   43     Dayton   44   44     Moses Lake   39   35     Anatone   24   22     St. Andrews   34   30     Bickleton   29   27     Almira   36   35     Lamont   31   31     Walla Walia   35   33     Fairfield   35   33     Dayton   32   31     Dayton   32   31     Dayton   32   31     Creston   35   34     St. Johns   38   36     Farmington   40   38     Moses Lake   37   35     Pullman   41   38     Mayview   37   36     St. Andrews   30   30     Anatone   30   29     Lamont   27   27     Fairfield   32   32     Dusty   36   32     Anatone   30   29     Lamont   27   27     Fairfield   32   32     Dusty   36   32     Anatone   30   29     Lamont   27   27     Fairfield   32   32     Dusty   36   32     Almira   39   39     Creston   32   31     Creston   32   31     Creston   32   31     Creston   32   31     Creston   30   29     Anatone   30   29     Anatone   30   29     Anatone   30   30			Lamont	38	36
Reardan   39   39   39   39   6					
Famington			Reardan		
Creston   39   36			Farmington		
Mayview   37   36			-		
Pullman   38   37			Mayview	37	
Dayton			Pullman	38	37
Moses Lake   39   35			St. John	43	43
2001       WSU       Ritzville       25       25         Anatone       24       22         St. Andrews       34       30         Bickleton       29       27         Almira       36       35         Lamont       31       31         Walla Walla       35       33         Fairfield       35       34         Dusty       33       31         Dayton       32       31         Creston       35       32         Reardon       35       32         Reardon       35       34         St. Johns       38       36         Farmington       40       38         Moses Lake       37       35         Pullman       41       38         Mayview       37       36         St. Andrews       30       30         Harrington       30       29         Anatone       30       29         Lamont       27       27         Fairfield       32       32         Dusty       36       32         Almira       39       39         Cres			Dayton	44	44
Anatone			Moses Lake	39	35
St. Andrews   34   30	2001	WSU	Ritzville	25	25
Bickleton   29   27     Almira   36   35     Lamont   31   31     Walla Walla   35   33     Fairfield   35   34     Dusty   33   31     Dayton   32   31     Creston   35   34     St. Johns   38   36     Farmington   40   38     Moses Lake   37   35     Pullman   41   38     Mayview   37   36     St. Andrews   30   30     Harrington   30   29     Lamont   27   27     Fairfield   32   32     Dusty   36   32     Amira   39   39     Creston   32   31     Mayview   35   34     Farmington   30   29     Lamont   27   27     Fairfield   32   32     Dusty   36   32     Dusty   36   32     Almira   39   39     Creston   32   31     Mayview   35   34     Farmington   38   35     Dayton   38   36     Reardan   34   32     Walla Walla   37   37     Pullman   34   32     St. Johns   39   38     U of Idaho   Jerome   33   32     Rupert   34   33     Aberdeen   38   38     Ririe   25   23     2003   WestBred   Blackfoot, ID   38   37			Anatone	24	22
Almira 36 35			St. Andrews	34	30
Lamont 31 31 31 33				29	27
Walla Walla   35   33     Fairfield   35   34     Dusty   33   31     Dayton   32   31     Creston   35   32     Reardon   35   34     St. Johns   38   36     Farmington   40   38     Moses Lake   37   35     Pullman   41   38     Mayview   37   36     St. Andrews   30   30     Harrington   30   29     Lamont   27   27     Fairfield   32   32     Dusty   36   32     Almira   39   39     Creston   32   31     Mayview   35   34     Almira   39   39     Creston   32   31     Mayview   35   34     Farmington   38   36     Reardan   34   32     Walla Walla   37   37     Pullman   38   38     Reardon   38     Reardon   38   38     Reardon   38     Reardon   38     Reardon   38   38			Almira	36	. 35
Fairfield   35   34				31	31
Dusty   33   31				35	33
Dayton   32   31					34
Creston   35   32     Reardon   35   34     St. Johns   38   36     Farmington   40   38     Moses Lake   37   35     Pullman   41   38     Mayview   37   36     Bickleton   29   28     St. Andrews   30   30     Harrington   30   29     Lamont   27   27     Fairfield   32   32     Dusty   36   32     Almira   39   39     Creston   32   31     Mayview   35   34     Farmington   38   35     Dayton   38   36     Reardan   34   32     Walla Walla   37   37     Pullman   34   32     Walla Walla   37   37     Pullman   34   32     St. Johns   39   38     U of Idaho   Jerome   33   32     Rupert   34   33     Aberdeen   38   38     Ririe   25   23     2003   WestBred   Blackfoot, ID   38   37			<del>-</del>		
Reardon   35   34					
St. Johns   38   36					
Farmington 40 38  Moses Lake 37 35  Pullman 41 38  Mayview 37 36  St. Andrews 30 30  Harrington 30 29  Anatone 30 29  Lamont 27 27  Fairfield 32 32  Dusty 36 32  Almira 39 39  Creston 32 31  Mayview 35 34  Farmington 38 35  Dayton 38 36  Reardan 34 32  Walla Walla 37 37  Pullman 34 32  Walla Walla 37  Pullman 34 32  St. Johns 39 38  U of Idaho Jerome 33 32  Rupert 34  Aberdeen 38 38  Ririe 25 23  2003 WestBred Blackfoot, ID 38					
Moses Lake					
Pullman 41 38 Mayview 37 36 Bickleton 29 28 St. Andrews 30 30 Harrington 30 29 Anatone 30 29 Lamont 27 27 Fairfield 32 32 Dusty 36 32 Almira 39 39 Creston 32 31 Mayview 35 34 Farmington 38 35 Dayton 38 36 Reardan 34 32 Walla Walla 37 37 Pullman 34 32 St. Johns 39 38 U of Idaho Jerome 33 32 Rupert 34 Aberdeen 38 38 Ririe 25 23 WestBred Blackfoot, ID 38			<del>-</del>		
Mayview   37   36					
2002       WSU       Bickleton       29       28         St. Andrews       30       30         Harrington       30       29         Anatone       30       29         Lamont       27       27         Fairfield       32       32         Dusty       36       32         Almira       39       39         Creston       32       31         Mayview       35       34         Farmington       38       35         Dayton       38       36         Reardan       34       32         Walla Walla       37       37         Pullman       34       32         St. Johns       39       38         U of Idaho       Jerome       33       32         Rupert       34       33         Aberdeen       38       38         Ririe       25       23         2003       WestBred       Blackfoot, ID       38       37					
St. Andrews 30 30 30 49 Harrington 30 29 Anatone 30 29 Lamont 27 27 27 Fairfield 32 32 32 Dusty 36 32 Almira 39 39 Creston 32 31 Mayview 35 34 Farmington 38 35 Dayton 38 36 Reardan 34 32 Walla Walla 37 37 Pullman 34 32 St. Johns 39 38 U of Idaho Jerome 33 32 Rupert 34 Aberdeen 38 38 38 Ririe 25 23 23 2003 WestBred Blackfoot, ID 38 30 29 Lamont 30 29 Lamo	0000	11/01/			
Harrington 30 29 Anatone 30 29 Lamont 27 27 Fairfield 32 32 Dusty 36 32 Almira 39 39 Creston 32 31 Mayview 35 34 Farmington 38 35 Dayton 38 36 Reardan 34 32 Walla Walla 37 37 Pullman 34 32 St. Johns 39 38 U of Idaho Jerome 33 32 Rupert 34 33 Aberdeen 38 38 Ririe 25 23 2003 WestBred Blackfoot, ID 38 37	2002	WSU			
Anatone 30 29 Lamont 27 27 Fairfield 32 32 Dusty 36 32 Almira 39 39 Creston 32 31 Mayview 35 34 Farmington 38 35 Dayton 38 36 Reardan 34 32 Walla Walla 37 37 Pullman 34 32 St. Johns 39 38 U of Idaho Jerome 33 32 Rupert 34 33 Aberdeen 38 38 Ririe 25 23 2003 WestBred Blackfoot, ID 38 37					
Lamont 27 27 Fairfield 32 32 Dusty 36 32 Almira 39 39 Creston 32 31 Mayview 35 34 Farmington 38 35 Dayton 38 36 Reardan 34 32 Walla Walla 37 37 Pullman 34 32 St. Johns 39 38 U of Idaho Jerome 33 32 Rupert 34 33 Aberdeen 38 38 Ririe 25 23 2003 WestBred Blackfoot, ID 38 37					
Fairfield   32   32   32   32   32   34   36   32   35   39   39   39   39   39   39   39					
Dusty       36       32         Almira       39       39         Creston       32       31         Mayview       35       34         Farmington       38       35         Dayton       38       36         Reardan       34       32         Walla Walla       37       37         Pullman       34       32         St. Johns       39       38         St. Johns       39       38         Rupert       34       33         Aberdeen       38       38         Ririe       25       23         2003       WestBred       Blackfoot, ID       38       37					
Almira 39 39 Creston 32 31 Mayview 35 34 Farmington 38 35 Dayton 38 36 Reardan 34 32 Walla Walla 37 37 Pullman 34 32 St. Johns 39 38 U of Idaho Jerome 33 32 Rupert 34 33 Aberdeen 38 38 Ririe 25 23 2003 WestBred Blackfoot, ID 38 37					
Creston       32       31         Mayview       35       34         Farmington       38       35         Dayton       38       36         Reardan       34       32         Walla Walla       37       37         Pullman       34       32         St. Johns       39       38         St. Johns       39       38         Rupert       34       33         Aberdeen       38       38         Ririe       25       23         2003       WestBred       Blackfoot, ID       38       37					
Mayview       35       34         Farmington       38       35         Dayton       38       36         Reardan       34       32         Walla Walla       37       37         Pullman       34       32         St. Johns       39       38         St. Johns       39       38         Rupert       34       33         Aberdeen       38       38         Ririe       25       23         2003       WestBred       Blackfoot, ID       38       37					
Farmington 38 35 Dayton 38 36 Reardan 34 32 Walla Walla 37 37 Pullman 34 32 St. Johns 39 38 U of Idaho Jerome 33 32 Rupert 34 33 Aberdeen 38 38 Ririe 25 23 2003 WestBred Blackfoot, ID 38 37					
Dayton       38       36         Reardan       34       32         Walla Walla       37       37         Pullman       34       32         St. Johns       39       38         Jerome       33       32         Rupert       34       33         Aberdeen       38       38         Ririe       25       23         2003       WestBred       Blackfoot, ID       38       37					
Reardan       34       32         Walla Walla       37       37         Pullman       34       32         St. Johns       39       38         Jerome       33       32         Rupert       34       33         Aberdeen       38       38         Ririe       25       23         2003       WestBred       Blackfoot, ID       38       37			<del>-</del>		
Walla Walla       37       37         Pullman       34       32         St. Johns       39       38         Jerome       33       32         Rupert       34       33         Aberdeen       38       38         Ririe       25       23         2003       WestBred       Blackfoot, ID       38       37			<b>▼</b>		
Pullman       34       32         St. Johns       39       38         U of Idaho       Jerome       33       32         Rupert       34       33         Aberdeen       38       38         Ririe       25       23         2003       WestBred       Blackfoot, ID       38       37					
U of Idaho       St. Johns       39       38         Jerome       33       32         Rupert       34       33         Aberdeen       38       38         Ririe       25       23         2003       WestBred       Blackfoot, ID       38       37					
U of Idaho       Jerome       33       32         Rupert       34       33         Aberdeen       38       38         Ririe       25       23         2003       WestBred       Blackfoot, ID       38       37					
Rupert       34       33         Aberdeen       38       38         Ririe       25       23         2003       WestBred       Blackfoot, ID       38       37		U of Idaho			
Aberdeen 38 38 Ririe 25 23 2003 WestBred Blackfoot, ID 38 37					
Ririe 25 23 2003 WestBred Blackfoot, ID 38 37			•		
2003 WestBred Blackfoot, ID 38 37					
	2003	WestBred			
······································					
Moses Lake, WA 39 36					

### "Mohler"

		Soft White W	inter Wheat	
		Pullman, WA	35	33
		Steptoe, WA	41	40
		Walla Walla, WA	41	40
	WSU	Lind	28	27
		Harrington	35	34
		St. Andrews	33	33
		Ritzville	31	30
		Bickleton	34	34
		Anatone	33	30
		Dusty	39	36
		Colton	35	32
		Mayview	38	33
		Almira	40	40
		Creston	39	37
		Reardan	36	34
		Lamont	39	37
		Fairfield	39	37
		Farmington	44	43
		Waila Waila	41	38
		Pullman	35	32
		Dayton	39	37
		St. Johns	44	43
		Moses Lake	38	36
2004	WSU	Lind	33	32
		Harrington	35	33
		St. Andrews	33	32
		Ritzville	33	33
		Anatone	36	33
		Dusty	42	38
		Colton	37	36
		Mayview	39	38
		Almira	37	37
		Creston	35	34
	,	Reardan	35	32
		Lamont	36	37
		Fairfield	36	35
		Farmington	42	41
		Walla Walla	40	39
		Pullman	36	35
		Dayton	34	33
		St. Johns	44	44
		Moses Lake	35	32
	OSU	Corvallis	49	45
		Moro	29	26
	•	Condon	38	38
-		Lexington	36	33
		Hermiston	41	40
		Pendleton	45	42
		Madras	42	40
		LaGrande	39	37
- <b>- 111</b>				

### "Mohler"

	Soft White W	Vinter Wheat	
U of Idaho	Rupert	38	35
	Kimberly	38	37
	Aberdeen	<u>37</u>	<u>35</u>
	maan	26.6	24.0

tTest w 113

7.17E-25 P= 7.17 x 10<sup>-25</sup>

Therefore they are different

REPRODUCE LOCALLY. Include form number and date on all reproductions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

Exhibit C

	BJECTIVE DESCRIPTION OF \ Wheat ( <i>Triticum</i> spp.)	/ARIETY
NAME OF APPLICANT (S) West Bred, LLC	TEMPORARY OR EXPERIMENTAL DESIGNATION BU 6693-477	VARIETY NAME Mohler
ADDRESS (Street and No. or RD No., City, State, Zip Code and Country)  8111 Timber line Dr.,  Bozeman, mT 59718	usa	FOR OFFICIAL USE ONLY  PVPO NUMBER  200400304
PLEASE READ ALL INSTRUCTIONS CAREFULLY:	<del></del>	
should be determined from varieties entered in the sar	ely. Data for quantitative plant characters shou ne trial. Royal Horticultural Society or any reco	Place a zero in the first box (e.g., 0 9 9 or 0 9 )  Id be based on a minimum of 100 plants. Comparative data gnized color standard may be used to determine plant colors as for your variety; lack of response may delay progress of
1. KIND:  1 = Common 2 = Durum 3 = Club 4 = Other (Specify)	2. VERNALIZATION 2. 1 = S 2 = W 3 = O	pring
3. COLEOPTILE ANTHOCYANIN:  1 = Absent 2 = Present	4. JUVENILE PLA	ANT GROWTH:  Prostrate 2 = Semi-Erect 3 = Erect
5. PLANT COLOR: (boot stage)  1 = Yellow-Green 2 = Green 3 = Blue-Green	্রি	<del>- '</del>
7. EAR EMERGENCE:  1 5 5 Number of Days (Average)  0 2 Number of Days Earlier Than *  Same As  Number of Days Later Than * *Relation*	Madsen  Stephens  tive to a Commercial Variety Grown in the Sam	ne Trial

9. PLA	NT HEIGHT: (from soil to top of head, excluding awns)	
0	q 3 cm (Average)	
0	on (Average)	
	cm Taller Than Mad Sen	*
	Same As	*
0	cm Shorter ThanHill 81	
10. ST	EM:	
A.	ANTHOCYANIN	D. INTERNODE
	1 = Absent 2 = Present	
	_	1 = Hollow 2 = Semi-Solid 3 = Solid
		Number of Nodes
	WAXY BLOOM	E. PEDUNCLE
2	1 = Absent 2 = Present	1 = Erect 2 = Recurved 3 = Semi-Erect
		211
^	HAIDINIECO (In-at intermedia de la companya de la c	-
	HAIRINESS (last internode of rachis)	F. AURICLE
2	1 = Absent 2 = Present	Anthocyanin 1 = Absent 2 = Present
		2 Hair: 1 = Absent 2 = Present
	·	2 - Flesein
11. HEA	D: (at maturity)	
Α. [	DENSITY	C. CURVATURE
	1 = Lax	F-1 4
2	2 = Mid-dense (Laxidense)	2 = Inclined
	3 = Dense	3 = Recurved
В. 8	SHAPE	D. AWNEDNESS
2	1 = Tapering	1 = Awnless
L	2 = Strap 3 = Clavate	2 = Apically Awnletted
	4 = Other (Specify)	3 = Awnletted 4 = Awned
40. 60.11		
	WES: (at maturity)	
A. C	OLOR	E. BEAK WIDTH
2	1 = White	3 1 = Narrow
	2 = Tan 3 = Other (Specify)	2 = Medium
B. S	HOULDER	3 = Wide
		F. GLUME LENGTH
	3 = Rounded 4 = Square	3 1 = Short (ca. 7mm) 2 = Medium (ca. 8mm)
	5 = Elevated 6 = Apiculate 7 = Other (Specify)	3 = Long (ca. 9mm)
C 81	HOULDER WIDTH	
J. 3		G. WIDTH
4	1 = Narrow 2 = Medium	3 1 = Narrow (ca. 3mm)
Dac	3 = Wide	2 = Medium (ca. 3.5mm) 3 = Long (ca. 4mm)
D. BE	EAK	(
2	1 = Obtuse	
3	2 = Acute 3 = Acuminate	

13. SEED:								
A	HAPE E. COLOR							
Ι	1 = Ovate 2 = Oval 3 = Elliptical	1 = White 2 = Amber 3 = Red 4 = Other (Specify)						
В	B. CHEEK	F. TEXTURE						
	1 = Rounded 2 = Angular	2 = Hard 2 = Soft 3 = Other (Specific)						
С	BRUSH	3 = Other (Specify)  G. PHENOL REACTION						
3	1 = Short 2 = Medium 3 = Long 1 = Not Collared 2 = Collared	1 = Ivory 4 = Dark- Brown 2 = Fawn 5 = Black 3 = Light- Brown						
D.	. CREASE	H. SEED WEIGHT						
2	1 = Width 60% or less of Kernel 2 = Width 80% or less of Kernel 3 = Width Nearly as Wide as Kernel	4 7 g/1000 Seed (whole number only)						
	1 = Depth 20% or less of Kernel	I. GERM SIZE						
2	2 = Depth 35% or less of Kernel 3 = Depth 50% or less of Kernel	3 1 = Small 2 = Mid-Size 3 = Large						
14. DIS	SEASE: (0 = Not Tested 1 = Susceptible 2 = Resista	ant 3 = Intermediate 4 = Toterant)						
	PLEASE INDICATE TH	HE SPECIFIC RACE OR STRAIN TESTED						
0	Stem Rust ( <i>Puccinia graminis</i> f. sp. <i>tritici</i> )	2 Leaf Rust (Puccinia recondita f. sp. tritici) Current PNW Races						
2	Stripe Rust (Puccinia striiformis) Current PNW Races	Loose Smut (Ustilago tritici)						
٥	Tan Spot (Pyrenophora tritici-repentis)	Flag Smut (Urocystis agropyri)						
0	Halo Spot (Selenophoma donacis)	Common Bunt (Tilletia tritici or T. laevis)						
0	Septoria nodorum (Glume Blotch)	O Dwarf Bunt (Tilletia controversa)						
0	Septoria avenae (Speckled Leaf Disease)	Kamal Bunt (Tilletia indica)						
0	Septoria tritici (Speckled Leaf Blotch)							
0	Scab (Fusarium spp.)							
0	"Black Point" (Kernel Smudge)	Common Root Rot (Fusarium, Cochlishelus and Binelasis ann.)						
0	Barley Yellow Dwarf Virus (BYDV)	- Summer reserver (r asartam, obermobolus and bipolans spp.)						
0	Soilborne Mosaic Virus (SBMV)	Tamesolonia (Cot (Cit (Tanzoctorila solalii)						
0	Wheat Yellow (Spindle Streak) Mosaic Virus	Black Grian (Xantriomorias campestris pv. translucens)						
o	What Charles A state of the sta							
0	•							
0	Other (Specify)	Other (Specify)						
0	Other (Specify)							
	Other (Specify)	O Other (Specify)						
. INSECT: (0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant)								
0	Hessian Fly (Mayetiola destructor)	CIFY BIOTYPE (where needed)						
$\equiv$	Stem Sawfly (Cephus spp.)	Other (Specify)						
	Cereal Leaf Beetle ( <i>Oulema melanopa</i> )							
		Other (Specify)						

200400 304

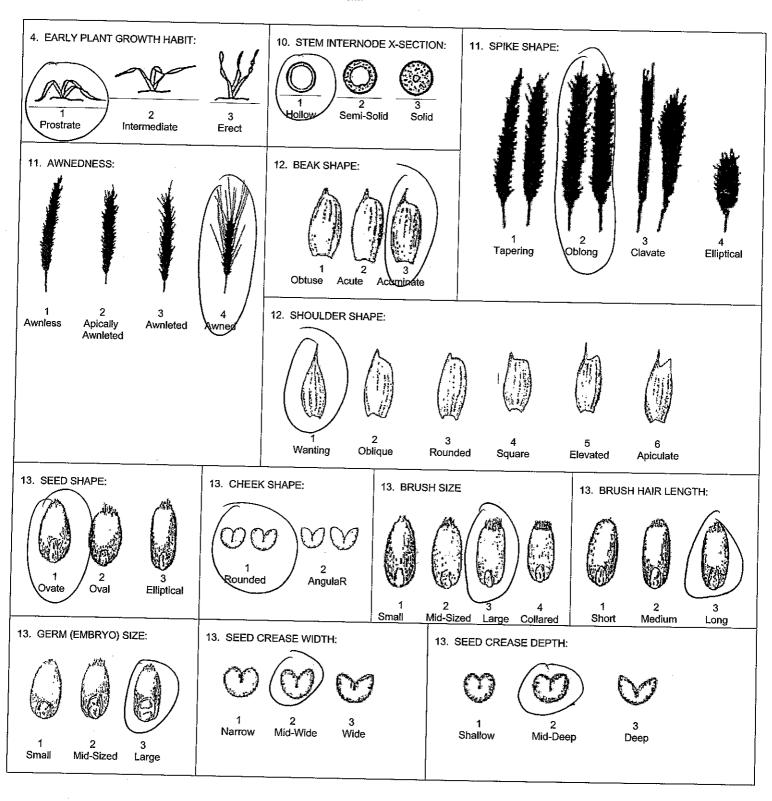
Exhibit C (Wheat)

15. INSECT: (continued)	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Intermediate	4 = Tolerant	Exmolt C (whea			
	PLEASE SPECIFY BIOTYPE (Where Needed)								
Russian Aphid (Di	Russian Aphid ( <i>Diuraphis noxia</i> )		Other (S	Specify)					
Greenbug (Schiza)	Greenbug (Schizaphis graminum)		O Other (S	Specify)					
O Aphids			Other (S			··			
		7		. , ,					

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS:

#### WHEAT DESCRIPTOR ILLUSTRATIONS

Section Numbers Correspond to the Numbers of the Sections on the Form



REPRODUCE LOCALLY. Include form number and edition date on al	Il reproductions.	ORM APPROVED - OMB No. 0581-0058					
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE  EXHIBIT E  STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to det certificate is to be issued (7 U.S.C. 2-confidential until the certificate is issued.	ermine if a plant variety protection					
1. NAME OF APPLICANT(S)  West Bred, LLC	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME  Mohler					
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	BU 6693-477	,					
8111 Timberline Dr.	5. TELEPHONE (Include area code)	6. FAX (Include area code)					
Bozeman, mT 59718	406-587-1218	406-586-8247					
-	7. PVPO NUMBER 0400	304					
8. Does the applicant own all rights to the variety? Mark an "X" in the 9. Is the applicant (individual or company) a U.S. national or a U.S. ba							
10. Is the applicant the science of							
10. Is the applicant the original owner?	NO If no, please answer <u>one</u> o	of the following:					
a. If the original rights to variety were owned by individual(s), is (a  YES  b. If the original rights to variety were owned by a company(ies),  YES	is (are) the original owner(s) a U.S. base	y ed company?					
11. Additional explanation on ownership (Trace ownership from original	al breeder to current owner. Use the rev	erse for extra space if needed):					
PLEASE NOTE:							
Plant variety protection can only be afforded to the owners (not licensed	es) who meet the following criteria:						
<ol> <li>If the rights to the variety are owned by the original breeder, that personational of a country which affords similar protection to nationals of the</li> </ol>		a UPOV member country, or					
<ol><li>If the rights to the variety are owned by the company which employed nationals of a UPOV member country, or owned by nationals of a cou- genus and species.</li></ol>	-144-						
3. If the applicant is an owner who is not the original owner, both the ori	iginal owner and the applicant must mee	et one of the above criteria					
The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection							

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.